

METRIC
MIL-C-83522/18A
25 June 1992
SUPERSEDING
MIL-C-83522/18
7 May 1991

# MILITARY SPECIFICATION

CONNECTOR FIBER OPTIC, SINGLE TERMINUS, ADAPTER.  
2.5 MILLIMETER BAYONET COUPLING PC MOUNT.

This specification is approved for use by all Departments  
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and the  
issue of the following specification listed in that issue of the Department of Defense Index of Specifications  
and Standards (DODISS) specified in the solicitation: MIL-C-83522.

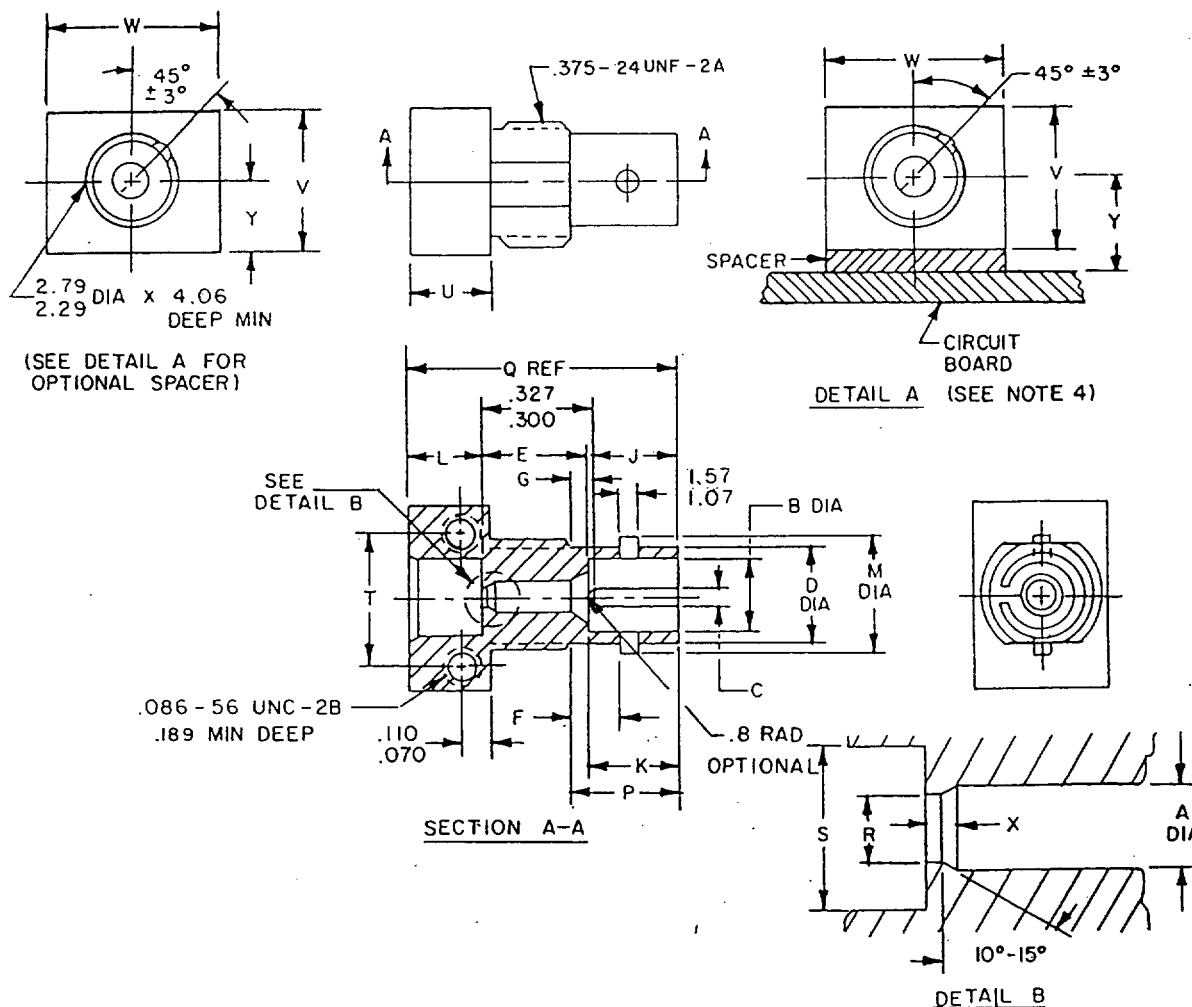


FIGURE 1. Dimensions and configuration.

AMSC N/A

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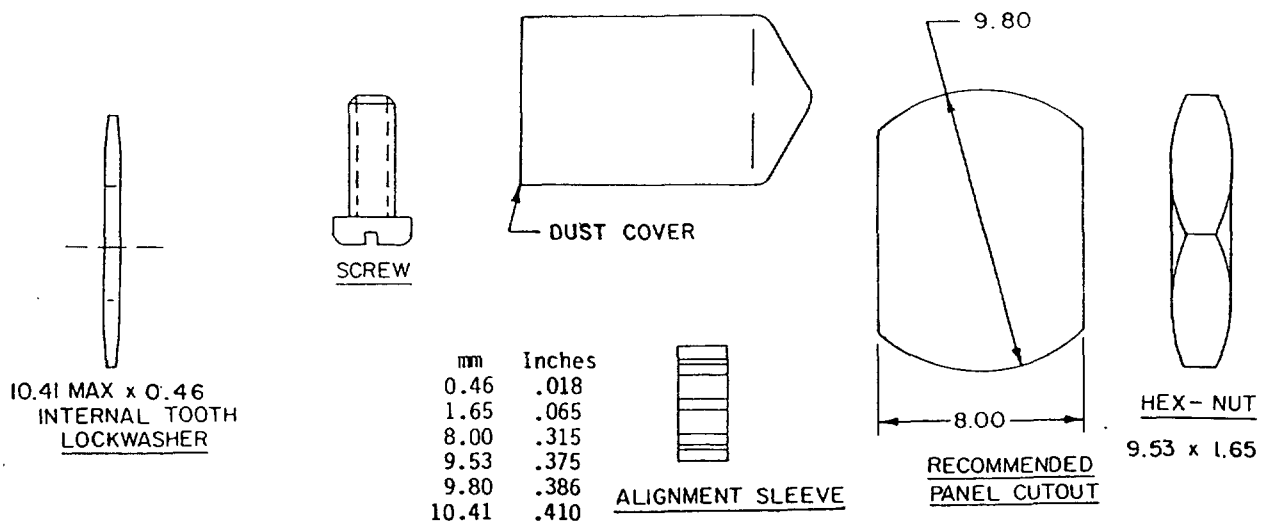
FSC 6060

DISTRIBUTION STATEMENT A. Approved for public release: distribution is unlimited.

Letter	Millimeters		Inches	
	Max	Min	Max	Min
A	2.517	2.502	0.0991	0.0985
B	5.82	5.64	0.229	0.220
C	1.32	1.12	0.065	0.044
D	7.04	6.81	0.277	0.268
E	7.80	7.75	0.307	0.300
F	5.33	5.03	0.226	0.180
J	6.98	6.85	0.275	0.270
K	7.34	7.24	0.290	0.285
L	5.46	5.21	0.215	0.205
M	8.38	8.13	0.340	0.320
P	9.91	9.65	0.390	0.380
Q	20.6	20.37	0.810	0.781
R	2.01	1.91	0.85	0.075
S	5.84	5.74	0.230	0.226
T	9.65	9.40	0.380	0.370
U	5.46	5.21	0.235	0.205
V	9.70	9.45	0.420	0.310
W	12.8	12.6	0.505	0.495
X	0.203	0.152	0.008	0.006
Y	5.33	5.08	0.210	0.200

FIGURE 1. Dimensions and configuration - Continued

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**NOTES:**

1. Dimensions are in millimeters.
2. Inches equivalents are given for general information only.
3. Tolerance is 0.38 mm ( $\pm 0.005$  inch) unless otherwise specified.
4. This dimension may be held by use of a spacer to be supplied with receptacle.

FIGURE 1. Dimensions and configuration - Continued.

**REQUIREMENTS:**

**Metals:** The coupling and bushing housing shall be of corrosion resistant steel in accordance with QQ-S-763, class 303/316L or nickel plated brass in accordance with QQ-B-626.

**Dust covers:** Shall be thermoplastic.

**Hex nut:** Shall be nickel plated brass or stainless steel.

**Dimensions and configuration:** See figure 1.

**Optical requirements:**

**Optical loss (attenuation):** Not applicable.

**Nuclear radiation resistance:** Not applicable.

**Weight:** 20 grams maximum.

**Safety wire holes:** Not applicable.

**Force to engage and disengage:**

**Longitudinal force:** Not applicable.

**Torque:** Not applicable.

**Coupling proof torque:** Not applicable.

**Coupling mechanism retention force:** Not applicable.

**Fiber optical cable:** Not applicable.

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Water Submersion: Not applicable.

Ozone exposure: Not applicable.

Fluid immersion: Not applicable.

Temperature cycling: Applicable except 5 cycles, -55°C to +85°C.

Mating durability: Applicable except 500 cycles.

Residual Magnetism: Not applicable.

Part or Identifying Number (PIN) is a new term encompassing previous terms used in specifications such as part number, type designator, or identification number.

PIN: M83522/18 - X X X

Temperature \_\_\_\_\_

Fiber size \_\_\_\_\_

Addition considerations \_\_\_\_\_

## Temperature:

H - High  
N - Normal

## Fiber size

X (type I) (125  $\mu$ m, MM)  
Y (type II) (125  $\mu$ m, MM/SM)  
Z (type I) (140  $\mu$ m, MM)

## Addition considerations:

S - Qualified to space flight requirements.

## CONCLUDING MATERIAL

### Custodians:

Army - CR  
Navy - EC  
Air Force - 85  
NASA - NA

### Review activities:

Navy - SH  
Air Force - 17, 19, 71, 80, 90, 99  
DLA - ES  
NASA - LRC, MSF

### User activities:

Navy - AS, MC, OS  
Air Force - 13, 14, 80

### Preparing activity:

Air Force - 85

### Agent:

DLA - ES

(Project number 6060-0098-03)

# STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

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3. The preparing activity must provide a reply within 30 days from receipt of the form.

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<b>I RECOMMEND A CHANGE:</b>		<b>1. DOCUMENT NUMBER</b> MIL-C-83522/18A	<b>2. DOCUMENT DATE (YYMMDD)</b> 92-06-25
<b>3. DOCUMENT TITLE</b> CONNECTOR FIBER OPTIC, SINGLE TERMINUS, ADAPTER, 2.5 MILLIMETER BAYONET COUPLING PC MOUNT			
<b>4. NATURE OF CHANGE</b> (Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)			
<b>5. REASON FOR RECOMMENDATION</b>			
<b>6. SUBMITTER</b>			
<b>a. NAME (Last, First, Middle Initial)</b>		<b>b. ORGANIZATION</b>	
<b>c. ADDRESS (Include Zip Code)</b>		<b>d. TELEPHONE (Include Area Code)</b> (1) Commercial (2) AUTOVON (If applicable)	<b>7. DATE SUBMITTED (YYMMDD)</b>
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